PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	•		
To: WILLIAM C. CRAY CYMER, INC.	PCT		
LEGAL DEPARTMENT 17075 THORNMINT COURT SAN DIEGO, CA 92127	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION		
an de	(PCT Rule 44.1)		
\$25-4-15°	Date of Malling (day/month/year) 25 MAY 2004		
Applicant's or agent's file reference 2003-0025-03	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No- PCT/US03/24146	International filing date (day/month/year) 30 July 2003 (30.07.2003)		
Applicant JOHN P. FALLON			
	rch report has been established and is transmitted berewith.		
Filing of amendments and statement under Article 19 The applicant is entitled, if he so wishes, to amend the c	aims of the international application (see Rule 46):		
When? The time limit for filing such amendments i international search report.	s normally two months from the date of transmittal of the		
Where? Directly to the International Bureau of WIPO, 34, chemin des Colombettes 1211 Geneva 20, Switzerland, Pacsimile No.: (41-22) 740.14.35			
For more detailed instructions, see the notes on the accompanying sheet.			
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.			
· —	ltional fee(s) under Rule 40.2, the applicant is notified that:		
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices, no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.			
<u> </u>			
4. Reminders Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must teach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.			
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.			
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.			
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II. National Chapters and the WIPO Internet site.			
Name and mailing address of the ISA/US Mail Stop PCT, Aun: ISA/US	Authorized officer Dredelle Ponte For		
Commissioner for Patents P.O. Box 1450	PAUL IP		
Alexandria, Virginia 22313-1450 Telephone No. 703-308 0956 Facsimile No. (703)305-3230			
Form PCT/ISA/220 (April 2002)	(See notes on accompanying shee		

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	cant's or agent's file reference 0025-03	FOR FURTHER ACTION	Report (Fi	eation of Transmittal of International Search orm PCT/ISA/220) as well as, where applicable, low.
	ational application No. US03/24146	International filing date (day/mont 30 July 2003 (30.07.2003)	th/year)	(Earliest) Priority Date (day/month/year) 31 July (31.07.2002)
Appli	cant I P. FALLON			
This accor	international search report has been ding to Article 18. A copy is being	en prepared by this International Seng transmitted to the International l	arching A Bureau.	uthority and is transmitted to the applicant
This	international search report consist It is also accompanie	s of a total of 3 sheets. ed by a copy of each prior art docu	ment cited	in this report.
1. 1	language in which it was file	d, unless otherwise indicated under t	nis item.	basis of the international application in the
1	the international search was Authority (Rule 23.1(b)). With regard to any nucleotic	as carried out on the basis of a transl	ation of the	e international application furnished to this e international application, the international
		nal application in written form.		
	filed together with the inte	rnational application in computer re	mable form	n. ·
	furnished subsequently to	this Authority in written form.		
	furnished subsequently to	this Authority in computer readable	form.	
	the statement that the subsingermaniumal application a	sequently furnished written sequence is filed has been furnished.	listing doe	s not go beyond the disclosure in the
	the statement that the info	rmation recorded in computer readal	ole form is	identical to the written sequence listing has
2.	Certain claims were four	nd unsearchable (See Box 1).		
3. 4.	With regard to the title,	king (See Box II).		
	the text is approved as su	bmitted by the applicant.		
	the text has been establish	hed by this Authority to read as follo	ws:	
5.	With regard to the abstract.			
	the text is approved as su		•	
	the text has been establis within one month from the	hed, according to Rule 38.2(b), by the date of mailing of this internations	ns Authori al search re	ty as it appears in Box III. The applicant may port, submit comments to this Authority.
6.	The figure of the drawings to be	published with the abstract is Figure	No. <u>1</u>	
	as suggested by the appli	cant.		None of the figures
1	because the applicant fail	led to suggest a figure.		
	because this figure better	r characterizes the invention.		·
<u></u>	DONOS AND (Europhore) (Tube 10	200		

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INTERNATIONAL SEARCH REPORT

Înte	mational	application	No.

PCT/US03/24146

	(Continuation of Item 5 of the first sheet)
Da-141 17 Y 1 / 16 CHE ARXIDAL I	(CANDANISTIAN OF REAL SOFTE RESERVED)

The present invention provides a control system for a modular for a modular high repetition rate two-discharge chamber ultraviolet. In preferred embodiments, the laser is a production line machine with a master oscillator (10) producing a very narrow band seed beam with is amplified (12) in the second discharge chamber. Novel control features specially adapted for a two-chamber gas discharge laser system include (1) pulse energy controls, with nanosecond timing precision (2) precision pulse to pulse wavelength controls with high speed and extreme speed wavelength tuning (3) fast response gas temperature control and (4) F ₂ injection controls with novel learning algorithm.			

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)

International application No.

PCT/US03/24146

A. CLAS					
TIC CT	· 372/55.57.58.59				
According to	International Parent Classification (IPC) or to both nati	onal classi	fication and IPC		
	OS SEARCHED				
Minimum doc U.S. : 37	cumentation searched (classification system followed by 72/55,57,58,59	classifică	tion symbols)		
Documentario	on searched other than minimum documentation to the e	extent that	such documents are included in	n the fields scarched	
Electronic da	ta base consulted during the international search (name	of data ba	se and, where practicable, sea	rch terros used)	
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category *	· Citation of document, with indication, where ap	propriace,	of the relevant passages	Relevant to claim No.	
Ÿ	US 6,314,119 BI (MORTON) 06 November 2001 (0	6,11.2001), whole document.	1-23	
Y	the state of the s			1-23	
Y	US 5,416,391 A (CORREA et al.) 16 May 1995 (16.	05.1995) ((whole document)	1-23	
Y	US 6,396,856 B1 (SUCHA et al.) 28 May 2002 (28.0	35.2002) (whole document)	1-23	
A	A US 6,535,531 B1 (SMITH et al.) 18 March 2003 (18.03.2003)			1-23	
Furthe	r documents are listed in the continuation of Box C.		See parent family annex.		
· ·	Special categories of cited documents:	-1-	tater document published after the in date and not in conflict with the appl	fication but cited to understand the	
"A" document of partic	K defining the general state of the art which is not considered to be		principle or theory underlying the in		
"E" cartler application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)			 document of particular relevance; the trained invention considered novel or caused be considered to involve an average the document is taken alone document of particular retevance; the claimed invention considered to involve at inventive sup when the documents of the considered with one or more other such documents, such being obvious to a person skilled in the art 		
					· · ·
"P" document published prior to the international filing date but later than the "&" priority date claimed			document member of the same paret		
20 December 2002 (20 12 2003)			Date of mailing of the international search report 2 5 MAY 2004 Authorized officer Juliul Julian Sol		
29 December 2003 (29.12.2003) Name and mailing address of the ISA/US A			red officer Julille	huter Oll	
Mail Stop PCT, Artn: ISA/US Commussioner for Patents			PAUL IP		
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230 Telephone No. 703-308 0956				·	